

Table 4.2 – Projections of Renewable Electricity Net Generation

(Billion Kilowatthours)

Renewable Energy	Data Sources	Projections				
		<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
Geothermal	AEO2005 - Reference Case	12.07	12.33	16.09	22.83	32.78
	AEO2005 - High Renewables		12.33		41.33	55.65
	EERE GPRA FY05		43.00	57.40	71.80	89.20
Wind	AEO2005 - Reference Case	23.55	25.89	27.34	31.61	34.52
	AEO2005 - High Renewables		25.89		36.15	44.60
	EERE GPRA FY05		47.10	110.70	234.40	249.80
Solar ¹	AEO2005 - Reference Case	1.08	1.94	2.32	3.35	5.70
	AEO2005 - High Renewables		1.95		3.74	6.73
	EERE GPRA FY05		2.20	8.20	22.20	33.80
Hydroelectric	AEO2005 - Reference Case	294.17	306.21	306.36	306.62	306.91
	AEO2005 - High Renewables		306.21		306.63	306.91
	EERE GPRA FY05		302.70	303.70	306.90	307.20
Biomass/Wood (without cogeneration)	AEO2005 - Reference Case	20.64	27.61	30.01	32.35	37.35
	AEO2005 - High Renewables		29.58		33.63	44.08
	EERE GPRA FY05		21.40	22.30	22.40	24.50
MSW and LFG	AEO2005 - Reference Case	26.58	27.82	28.31	28.60	28.73
	AEO2005 - High Renewables		27.82		28.96	29.11
	EERE GPRA FY05 ²		28.90	30.30	31.30	31.50
Total Renewable Energy	AEO2005 - Reference Case	408.94	435.54	446.64	465.21	489.19
	AEO2005 - High Renewables		439.72		498.09	541.58
	EERE GPRA FY05 ³		436.20	483.10	563.30	626.10

Sources: EIA Annual Energy Outlook 2005, DOE/EIA-0383 (2005) (Washington, D.C., February), Tables A16 and E7. U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Projected Benefits of Federal Energy Efficiency Programs: FY2005 Budget Request, prepared by the National Renewable Energy Laboratory, NREL/TP-620-36407 (May 2004).

Notes: OnLocation GPRA05 benefits estimates do not estimate any programmatic influence on biomass power since the biomass program has been redirected away from biomass power to integrated biorefinery technologies. Total represents portfolio case values, while individual program values represent each program case. The portfolio case accounts for program interactions and micro-price feedback effects.

¹ Solar thermal and photovoltaic energy.

² EERE does not have an R&D program for LFG/MSW and thus are not included in GPRA projections

³ Biomass, MSW and LFG are not included in the portfolio value. The portfolio values do not equal the summed values of the individual programs, as the portfolio analysis accounts for program interactions and micro-price feedback effects.